

# TOPCEM PRONTO

Ready-to-use normal setting controlled-shrinkage mortar for quick-drying screeds (4 days)



## CLASSIFICATION ACCORDING TO EN 13813

Screeds prepared with **Topcem Pronto** in accordance with the specifications described in this technical data sheet are classified as CT - C30 - F6 - A1FL in compliance with the European Norm EN 13813.

## WHERE TO USE

For forming bonded, unbonded, and floating screeds on new and existing slabs in interiors and exteriors prior to installing wood, PVC, linoleum, ceramic tile, natural stone, carpet or other floor coverings in areas where fast-drying screeds are required in order to lay floorings in a short time.

### Some application examples

- Forming screeds that are trafficable in 12 hours and completely dry in 4 days, for installing wood parquet and resilient flooring such as rubber, PVC, linoleum, etc.
- Screeds that are ready to receive ceramic tiles after 24 hours and natural stone flooring after 2 days.
- Repairing screeds in areas where it is required to lay floorings in a short time (e.g. supermarkets, shops, residences, offices, etc.).
- Forming heated screeds without the need for plasticizers.

## TECHNICAL CHARACTERISTICS

**Topcem Pronto** is a pre-blended ready-to-use mortar with normal setting and controlled shrinkage based on a special hydraulic binder and graded aggregates.

**Topcem Pronto** is extremely easy to use: just mix with water. This prevents mistakes from being made in adding the correct amount of binder and properly graded aggregate, which could compromise the final performance characteristics of the screed when cured.

**Topcem Pronto** is the ideal solution where good quality graded aggregate is hard to find or for job sites such as those in city centres where the logistics involved in mixing conventional binders can be difficult.

**Topcem Pronto** is workable for the same length of time as conventional cement based mortars but cures much faster.

## RECOMMENDATIONS

- Waterproofing with a Mapei waterproofing membrane after 2 days.
- For ceramic and stone installations, in the case of rising damp, provide a suitable waterproofing membrane.
- For resilient installations, relative humidity and pH level readings must be carried out on the concrete substrate in accordance with AS 1884. If required, a moisture vapour barrier (such as **Primer MF** or **Mapeproof 1K Turbo**) should be applied above the screed.
- Do not mix **Topcem Pronto** with other binders (e.g. **Mapecem**, **Topcem**, cement, lime, gypsum, etc.) or aggregates.
- Mix **Topcem Pronto** with the correct amount of water.

- It is recommended to incorporate saw cuts to one third of the depth of the screed thickness when installing large bay sizes.
- Do not add water to **Topcem Pronto** mix once it has begun to set.
- Do not wet the surface of **Topcem Pronto** screed.

## APPLICATION PROCEDURE

### Preparing the substrate

For an unbonded or floating application, all substrates are suitable for receiving a **Topcem Pronto** screed. Isolate the substrate with a sheet of polyethylene or similar material.

For bonded screeds, the substrate must be dry, without cracks, free of dust and loose particles, varnish, wax, oil, and gypsum residues. Existing joints in the substrate must be carried through the screed.

### PREPARING THE MIX

**Topcem Pronto** can be mixed in:

- rotating mixers;
- normal job site mixers;
- centrifugal mixers;
- truck mixers;
- automatic pressure pumps.

Mix one 20kg bag of **Topcem Pronto** with 1.4 litres of clean water for at least five minutes. Never vary the amount of water because this will weaken the mortar's final performance.

The mix should have a semi-dry consistency. Tamp and float the mix until a dense, smooth surface is obtained without bleeding.

## UNBONDED SCREEDS

### (Min. 35 to 70 mm thick)

The **Topcem Pronto** mix must be laid on an isolating layer, made up of a polyethylene sheet barrier, or similar, to allow for movement between the screed and the existing substrate.

On compressible substrates, areas with piping, or when the thickness exceeds 60 mm, incorporate galvanized metal reinforcement in accordance with AS 3958.1.

Spread the **Topcem Pronto** mix just like any other cement based screed mix: use screed guides, then spread the mix and tamp thoroughly before floating to obtain a better surface finish.

Place isolating material (such as cardboard, polystyrene foam, cork, etc.) approx. 1 cm thick around the sides of the area and around columns before casting.

If work is interrupted, place steel rods 20 to 30 cm long and 3 to 6 mm in diameter, spaced 20 to 30 cm apart, into the screed (which has been cut perpendicular to the substrate) to ensure a perfect connection between the new and the old pours and to prevent uneven joints and cracks.

**The Topcem Pronto mix is usually workable for a greater length of time than a conventional screed mix. Ambient temperatures may influence the setting and drying times.**

## FLOATING SCREEDS

### (min. 35 to 70 mm thick)

The screed mix is prepared and applied in the same way as an unbonded screed. The difference is that floating screeds include insulation or heating systems.

The insulation should have a high resistance to compression and not depress more than 3 mm under the anticipated final load.

Where underfloor heating pipes are incorporated, they should be located a minimum of 25 mm below the surface of the screed. Additionally reinforcing mesh should be placed over the pipes.

The underfloor heating may be commissioned after 4 days

## BONDED SCREEDS

### (from 10 to 70 mm thick)

Bonded screeds must be laid directly in contact with the substrate, which may be cementitious material or made up of an old ceramic or stone floor. For other substrates, consult the MAPEI Technical Services Department.

Once the substrate has been prepared sufficiently, and immediately before spreading on the **Topcem Pronto** mix, prepare a bonding slurry with **Topcem Pronto Slurry** mixed with **Planicrete SP** according to the ratio in the table below. Apply a continuous, even 2-3 mm layer using a large flat brush, a scrubbing brush or a trowel. To get perfect adhesion, spread **Topcem Pronto** on the slurry while it is still fresh (fresh on fresh technique).

If the floor is subjected to high mechanical stresses, the construction joint must be made by replacing the **Topcem Pronto Slurry** cementitious bonding slurry with **Eporip**. Spread on **Topcem Pronto** using the same method described above.

For thicknesses over 50 mm, it is recommended to incorporate galvanised metal reinforcement in accordance with AS 3958.1. MIXING RATIO for **Topcem Pronto Slurry** cementitious slurries:

Planicrete SP:	2 parts in weight
Topcem Pronto Slurry:	3 parts in weight

OR

Planicrete:	1 part in weight
Water:	1 part in weight
Topcem Pronto Slurry:	3 parts in weight

## MEASURING MOISTURE CONTENT

Normal electric hygrometers give values that are not reliable for **Topcem Pronto** screeds.

It is therefore absolutely necessary that a carbide hygrometer is used to measure the level of residual humidity; this instrument shows the absolute value of humidity by weight.

## CONSUMPTION

18-20 kg/m<sup>2</sup> per cm of thickness, depending on compaction.

## Cleaning

Clean tools with water.

## PACKAGING

**Topcem Pronto** is available in 20kg bags.

## STORAGE

**Topcem Pronto** is stable for at least 12 months when stored in a dry, elevated area.

## SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet available for download from our website at [www.mapei.com.au](http://www.mapei.com.au).

**PRODUCT FOR PROFESSIONAL USE.**

<b>TECHNICAL DATA (typical values)</b> In compliance with: – European EN 13813 CT-C30-F6-A1 <sub>FL</sub>	
<b>PRODUCT IDENTITY</b>	
Consistency:	powder
Colour:	grey
Bulk density (kg/m <sup>3</sup> ):	1,500
Dry solids content (%):	100
EMICODE:	EC1 R Plus - very low emission
<b>APPLICATION DATA (at +23°C - 50% R.H.)</b>	
Mix ratio:	1.4 l of water per 20 kg of <b>Topcem Pronto</b>

Density of the mix (kg/m <sup>3</sup> ):	2,100 depending on compaction
Mixing time:	5 to 10 mins
Workability of the mix:	60 mins
Application temperature range:	from +5°C to +35°C
Set to light foot traffic:	after 12 hours
Waiting time before application of levelling compounds:	from 1 to 4 days, depending on the type of flooring to be laid
FINAL PERFORMANCE	
Thermal conductivity in compliance with EN 12664:	$\lambda = 2.008 \text{ W/mK}$
Resistance to moisture:	excellent
Resistance to ageing:	excellent
Resistance to solvents and oils:	excellent
Resistance to acids and alkalis:	poor
Resistance to temperature:	from -30°C to +90°C
Flexibility:	no

Compressive and flexural strength, and resistance to residual moisture	Compressive strength (N/mm <sup>2</sup> )	Flexural strength (N/mm <sup>2</sup> )	Residual moisture (%)
– after 1 day:	> 8	> 3	< 3.5
– after 4 days:	> 15	> 4	< 2.0
– after 7 days:	> 22	> 5	–
– after 28 days:	> 30	> 6	–

**Notes:** the samples used for the strength tests are prepared according to EN 13892-1 standards by following a manual procedure so that the mortar becomes as compact as possible.

## WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com.au](http://www.mapei.com.au)

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